

The ICOM logo features a red circle with a white 'O' inside, followed by the word 'ICOM' in a white, sans-serif font.

COMMUNICATIONS RECEIVER

IC-R6

A Diverse and Flexible Wideband Scanner



100 kHz — 1309.995 MHz Wideband Coverage*

* Frequency range depends on version. Cannot decode digital modes.

Fast Scanning Speed —

100 Channels per Second *

* VFO mode.

1300 Memory Channels with
PC Programmable Capability

Wide Variety of Scan Types for
Searching New Stations

Compact, Drip-Resistant Construction
with Large Internal Speaker

15 Hours of Continuous Receive Capability*

* With rechargeable Ni-MH cells (1400 mAh x 2) using 50 mW external speaker.

OTHER FEATURES

- Built-in audio low pass filter
- $\pm 1.0\text{ppm}$ high frequency stability (at 25°C)
- Earphone cord antenna for AM aviation as well as FM broadcast
- Ferrite bar antenna for AM broadcast
- 150mW loud audio with internal speaker
- DTCS and CTCSS tone squelch and reverse tone squelch
- Priority watch function with priority beep function
- Optional CT-17, CI-V level converter for remote control
- PC programmable with optional CS-R6
- Receiver-to-receiver cloning (optional OPC-474 required)
- Auto power OFF (0.5–2 hours and end of busy signal)
- Compact, drip-resistant construction
- Duplex operation monitoring
- Automatic LCD backlight
- Dial speed acceleration
- Built-in RF attenuator
- Auto memory write scan stores the detected frequency, mode and tone into a specified memory
- Reversible up/down buttons and dial knob for volume, frequency, memory channel, scan direction and set mode settings
- Optional new tube earphone, SP-27
- Weather channel receive with weather alert (USA version only)

SPECIFICATIONS**GENERAL**

• Frequency coverage	: 0.100–1309.995MHz*
	(* Cellular blocked in the U.S.A. version.)
France	: 0.100–29.995, 50.200–51.200, 87.500–107.995, 144–146, 430–440, 1240–1300MHz
• Mode	: AM, FM, WFM
• No. of memory channels	: 1300 regular, 50 scan edges and 200 auto memory write
• Usable temperature range	: –10°C to +60°C ; +14°F to +140°F
• Frequency stability	: $\pm 1.0\text{ppm}$ (at 25°C)
• Tuning steps	: 5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200kHz
	(* Selectable depending on operating bands.)
• Battery requirement	: 2×R6 (AA) size Ni-MH or alkaline cells
• External power supply	: 4.5V DC rated (4.5–6.3V with BC-196SA/SD, CP-18A/E)
• Current drain (at 3.0V DC)	: Rated audio Standby 130mA typ. (Ext. SP, backlight off) 65mA typ.
Power save	: 30mA typ. (1:4 duty)
• Antenna impedance	: 50Ω (SMA)
• Dimensions (W×H×D)	: 58×86×29.8 mm; 2 $\frac{9}{32}$ ×3 $\frac{3}{8}$ ×1 $\frac{3}{16}$ in
(Projections not included)	
• Weight (approx.)	: 200g; 7.1oz

RECEIVER

• Intermediate frequencies	:
FM, AM	: 266.7MHz, 19.65MHz, 450kHz
WFM	: 266.7MHz, 19.95MHz, 750kHz
• Sensitivity (except spurious points):	
FM (12dB SINAD)	: 1.625MHz– 4.995MHz 0.32μV typ.
	: 5.000MHz– 29.995MHz 0.25μV typ.
	: 30.000MHz– 117.995MHz 0.18μV typ.
	: 118.000MHz– 246.995MHz 0.18μV typ.
	: 247.000MHz– 469.995MHz 0.18μV typ.
	: 470.000MHz– 832.995MHz 0.32μV typ.
	: 833.000MHz– 1029.995MHz 0.28μV typ.
	: 1030.000MHz– 1309.995MHz 0.35μV typ.
WFM (12dB SINAD)	: 76.000MHz– 108.000MHz 1.1μV typ.
	: 175.000MHz– 221.995MHz 1.1μV typ.
	: 470.000MHz– 770.000MHz 1.8μV typ.
AM (10dB S/N)	: 0.495MHz– 4.995MHz 1.3μV typ.
	: 5.000MHz– 29.995MHz 0.89μV typ.
	: 118.000MHz– 136.000MHz 0.63μV typ.
	: 222.000MHz– 246.995MHz 0.63μV typ.
	: 247.000MHz– 329.995MHz 0.79μV typ.
• Selectivity	AM, FM : More than 12kHz/–9dB, Less than 30kHz/–60dB
	WFM : More than 150kHz/–6dB

All stated specifications are subject to change without notice or obligation.

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

- **BC-196SA/SD AC ADAPTER**
4.5V DC, 400mA output. Allows you to power the IC-R6 and charge the supplied Ni-MH battery cells installed in the IC-R6 in 15 hours (approx.). For exclusive use with the IC-R6 and BC-194 only.
- **BC-194 CHARGER STAND**
Drop-in charger for use with BC-196S or CP-18A/E.
- **CP-18A/E CIGARETTE LIGHTER CABLE**
6V DC, 1.5A output from 12V cigarette lighter socket.

- **HP-4 HEADPHONE**
Light weight monaural headphone.
- **SP-13 EARPHONE**
SP-27 TUBE EARPHONE
Provides clear audio even in noisy environments.
- **LC-146A CARRYING CASE**
Helps protect the receiver from scratches, etc.
- **CT-17 CI-V LEVEL CONVERTER**
For receiver remote control from a PC.

- AF output power (at 3.0V DC, 10% distortion) :
Internal speaker (16Ω load) More than 150mW
External speaker (8Ω load) 80mW typ.
- External SP connector : 3-conductor 3.5 (d) mm (1/8")/8Ω

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Humidity	507.4	–
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard
Water IPX2 (Drip resistant)

Supplied accessories

- Ni-MH cells*
- AC adapter, BC-196SA/SD*
- Antenna
- Belt clip
- Handstrap

(* Not supplied depending on version)

CS-R6 CLONING SOFTWARE**OPC-478 CLONING CABLE (RS-232C cable)****OPC-478UC CLONING CABLE (USB cable)**

Use a PC to easily edit stored memory channel data.

OPC-474 CLONING CABLE

Used for receiver-to-receiver data cloning.

AD-92SMA ANTENNA CONNECTOR ADAPTER

Allows you to connect a BNC-type antenna.



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